

IN THE CLAIMS:

Please amend the claims as follows.

Claim 1 (Withdrawn): Disease determination method for determining whether a person has a certain disease or not using a biological sample, comprising;

pretreatment process to add an acidic or alkaline solution to the sample and to heat the sample,

excitation light irradiation process to irradiate the sample with excitation light and to continuously or intermittently change the wavelength of the excitation light,

emission light measurement process to measure the wavelength and intensity of the emission light emitted from the sample in response to the excitation light,

analyzing and sorting process to detect a specific point in the three-dimensional optical spectrum composed of the excitation light wavelength, emission light wavelength and emission light intensity and to sort or hierarchize the sample based on the specific point attribute, and

determination process to determine the presence or absence of the disease or the condition of the disease of the body to which the sample belongs based on the sorting and hierarchization results of the sample.

Claim 2 (Withdrawn): The disease determination method according to claim 1, wherein a specific point attribute is determined by at least one of the parameters, including wavelength coordinates of said specific point, number of the specific points, intensity of said emission light of the specific point, rate of change in the emission light intensity on the periphery of the specific point and the three-dimensional optical spectrum shape in said analyzing and sorting process.

Claim 3 (Withdrawn): The disease determination method according to claim 1, wherein urine is used as said sample.

Claim 4 (Withdrawn): The disease determination method according to claim 1, wherein fluorescence is measured as said emission light.

Claim 5 (Withdrawn): The disease determination method according to claim 1, wherein the light having a wavelength in a range of 200-900nm as said excitation light in said excitation light irradiation process and

fluorescence having a wavelength in a range of 200-900nm as said emission light in said emission light measurement process.

Claim 6 (Withdrawn): The disease determination method according to claim 1, wherein an acidity adjustment process to adjust acidity of said sample is further included after said pretreatment process is performed.

Claim 7 (Withdrawn): The disease determination method according to claim 6, wherein acidity of said sample is arbitrarily selected from acidic, alkaline, neutral or almost neutral and an acid, alkali or buffer is added to the sample to achieve the acidity selected during said acidity adjustment process.

Claim 8 (Withdrawn): The disease determination method according to claim 7, wherein the acidity of said sample is maintained in alkaline during said acidity adjustment process.

Claim 9 (Withdrawn): The disease determination method according to claim 1, wherein said specific point is determined by a relative maximum peak of the intensity of said emission light of said three-dimensional optical spectrum in said analyzing and sorting process.

Claim 10 (Withdrawn): The disease determination method according to claim 9, wherein specific point detection maps consisting of a numerical matrix, contour map or vector diagram on said three-dimensional coordinate system are prepared and said specific point is detected based on the specific point detection map in said analyzing and sorting process.

Claim 11 (Withdrawn): The disease determination method according to claim 1, wherein the specific point attribute of said sample subject for the determination and the known specific point attributes detected in advance using the standard samples from the bodies having a known specific type of disease are compared and the sample is sorted according to the comparison results in said analyzing and sorting process.

Claim 12 (Withdrawn): The disease determination method according to claim 11, wherein a standard data generation process is included to generate said known specific point attributes based on the comparison results of the specific point attribute detected using the standard samples from the healthy bodies with the specific point attribute detected using the standard samples from the bodies having a known specific type of disease.

Claim 13 (Withdrawn): The disease determination method according to claim 1, wherein said disease is a malignant tumor.

Claim 14 (Currently Amended): Data generation method for disease determination for generating data for disease determination using a biological sample obtained from the subject, comprising;

pretreatment process to add an acidic or alkaline solution to the sample and to heat the sample,

excitation light irradiation process to irradiate the sample with the excitation light and to continuously or intermittently change the wavelength of the excitation light,

emission light measurement process to measure the wavelength and intensity of the emission light emitted from the sample in response to the excitation light, and

analyzing and sorting process to detect a specific point in the three-dimensional optical spectrum composed of the excitation light wavelength, emission light wavelength and emission light intensity and to sort or hierarchize the sample based on an attribute of the specific point attribute, wherein the specific point is a relative maximum peak or a relative minimum peak of a fluorescence intensity.

Claim 15 (Currently Amended): The data generation method for disease determination according to claim 14, wherein a specific point attribute is determined by at least one of the parameters[[,]] selected from the group consisting of including wavelength coordinates of said specific point, number of the specific points, intensity of said emission light of the specific point, rate of change in the emission light intensity on the periphery of the specific point and said three-dimensional optical spectrum shape in said analyzing and sorting process.

Claim 16 (Previously Presented): The data generation method for disease determination according to claim 14, wherein urine is used as said sample.

Claim 17 (Previously Presented): The data generation method for disease determination according to claim 14, wherein fluorescence is measured as said emission light.

Claim 18 (Previously Presented): The data generation method for disease determination according to claim 14, wherein

the light having a wavelength in a range of 200-900nm as said excitation light in said excitation light irradiation process and

fluorescence having a wavelength in a range of 200-900nm as said emission light in said emission light measurement process.

Claim 19 (Previously Presented): The data generation method for disease determination according to claim 14, wherein the acidity adjustment process to adjust acidity of said sample is further included after said pretreatment process is performed.

Claim 20 (Original): The data generation method for disease determination according to claim 19, wherein acidity of said sample is arbitrarily selected from acidic, alkaline, neutral or almost neutral and an acid, alkali or buffer is added to the sample to achieve the acidity selected during said acidity adjustment process.

Claim 21 (Original): The data generation method for disease determination according to claim 20, wherein the acidity of said sample is maintained in alkaline during said acidity adjustment process.

Claim 22 (Previously Presented): The data generation method for disease determination according to claim 14, wherein said specific point is at least one of a relative maximum peak, a relative minimum peak and a point having $1/n$ of the intensity of the relative maximum peak ($n>1$) of said emission light in said three-dimensional optical spectrum in said analyzing and sorting process.

Claim 23 (Currently Amended): The data generation method for disease determination according to claim 22, wherein specific point detection maps selected from the group consisting of a numerical matrix, contour map [[or]] and vector diagram on said three-dimensional coordinate system are prepared and said specific point is detected based on the specific point detection map in said analyzing and sorting process.

Claim 24 (Previously Presented): The data generation method for disease determination according to claim 14, wherein the specific point attribute of said sample subject for the examination and the known specific point attributes detected in advance using the standard samples from the bodies having a known specific type of disease are compared and the sample is sorted according to the comparison results in said analyzing and sorting process.

Claim 25 (Original): The data generation method for disease determination according to claim 24, wherein the standard data generation process is included to generate said known specific point attributes based on the comparison results of the specific point attribute detected using the standard samples from the healthy bodies with the specific point attribute detected using the standard samples from the bodies having a known specific type of disease.

Claim 26 (Previously Presented): The data generation method for disease determination according to claim 14, wherein said disease is a malignant tumor.

Claim 27 (Withdrawn): The data generation system for disease determination for generating disease determination data by analyzing the sample collected from the body of the subject, comprising;

excitation light irradiation means to irradiate the sample with the excitation light and to continuously or intermittently change the wavelength of the excitation light,

emission light measurement means to measure the wavelength and intensity of the emission light emitted from the sample in response to the excitation light, and

analyzing and sorting means to detect a specific point in the three-dimensional optical spectrum composed of the excitation light wavelength, emission light wavelength and emission light intensity and to sort or hierarchize the sample based on the specific point attribute to generate sorting data for disease determination.

Claim 28 (Withdrawn): The data generation system for disease determination according to claim 27, wherein a specific point attribute is determined by at least one of the parameters, including wavelength coordinates of said specific point, number of the specific points, intensity of said emission light of the specific point, rate of change in the emission light intensity on the periphery of the specific point and said three-dimensional optical spectrum shape in said analyzing and sorting means.

Claim 29 (Withdrawn): The data generation system for disease determination according to claim 27, wherein

the light having a wavelength in a range of 200-900nm as said excitation light in said excitation light irradiation means and

fluorescence having a wavelength in a range of 200-900nm as said emission light in said emission light measurement means.

Claim 30 (Withdrawn): The data generation system for disease determination according to claim 27, wherein said specific point is at least one of a relative maximum peak, a relative minimum peak and a point having $1/n$ of the intensity of the relative maximum peak ($n > 1$) of said emission light in said three-dimensional optical spectrum in said analyzing and sorting means.

Claim 31 (Withdrawn): The data generation system for disease determination according to claim 27, comprising a storage means that the known specific point attributes are stored in advance, wherein said analyzing and sorting means compares the known specific point attributes

stored in said storage means and the specific point attribute of the samples obtained from said subject and sorts said sample based on the comparison results.

Claim 32 (Withdrawn): The data generation system for disease determination according to claim 31, wherein standard data generation means is included to generate said known specific point attributes based on the comparison results of the specific point attribute detected using the standard samples from the healthy bodies with the specific point attribute detected using the standard samples collected from the bodies having a known specific type of disease.